

We claim:

- 1 1. A communication equipment comprising:
2 an aggregator for aggregating information based on user service
3 requirements and for transmitting the aggregated information.
- 1 2. The communication equipment of claim 1 where the aggregating of the information is
2 further based on allowed transmission rate.
- 1 3. The communication equipment of claim 1 where the aggregator has an input for
2 coupling to a first buffer.
- 1 4. The communication equipment of claim 3 where the first buffer receives information
2 from a terminal equipment from which said first buffer retrieves the information if the
3 communication equipment operates in a terminal mode and the first buffer receives
4 information from equipment other than terminal if the communication equipment
5 operates in a relay mode.
- 1 5. The communication equipment of claim 4 where the first buffer retrieves the
2 information in accordance with time delay requirements of the information.
- 1 6. The communication equipment of claim 3 where the aggregated information from the
2 aggregator is fed to a second buffer coupled to an output of the aggregator for outputting
3 the information in accordance with time delay requirements of the information.

- 1 7. The communication equipment of claim 1 where the user service requirements are
2 related to quality of service provided to users of a communication system within which
3 the equipment is being used.
- 1 8. The communication equipment of claim 1 where the information comprises real time
2 information.
- 1 9. The communication equipment of claim 1 where the aggregator performs channel
2 coding and modulation on the aggregated information.
- 1 10. A communication equipment comprising:
2 a de-aggregator for de-aggregating received information aggregated based on user
3 service requirements
- 1 11. The communication equipment of claim 10 where the de-aggregator transfers the de-
2 aggregated received information in accordance to time delay requirements of the
3 information to a terminal equipment, if the communication equipment operates in a
4 terminal mode and the de-aggregated information is transferred to equipment other than
5 terminal equipment if the communication equipment operates in a relay mode.
- 1 12. The communication equipment of claim 10 where the de-aggregator has an input for
2 coupling to a first buffer and an output for coupling to a second buffer.
- 1 13. The communication equipment of claim 12 where the de-aggregator provides the de-
2 aggregated information to the first buffer for outputting such information in accordance
3 with the time delay requirements of the received information.
- 1 14. The communication equipment of claim 12 where the de-aggregator has an input
2 coupled to a second buffer.
- 1 15. A method of transmitting information, the method comprising the step of:

- 2 aggregating at least a portion of information based on user service requirements.
- 1 16. The method of claim 15 where the information is encoded prior to being aggregated.
- 1 17. The method of claim 15 further comprising the step of buffering the aggregated
2 information.
- 1 18. The method of claim 17 where the buffered aggregated information is outputted in
2 accordance with timing delay requirements of the information.
- 1 19. The method of claim 15 where the step of aggregating the information further
2 comprises channel coding the information.
- 1 20. A method for receiving information, the method comprising the step of:
2 de-aggregating received information where such information is aggregated based
3 on user service requirements.
- 1 21. The method of claim 20 further comprising the step of buffering the de-aggregated
2 information.
- 1 22. The method of claim 21 where the buffered de-aggregated information is outputted
2 in accordance with time delay requirements of the information.